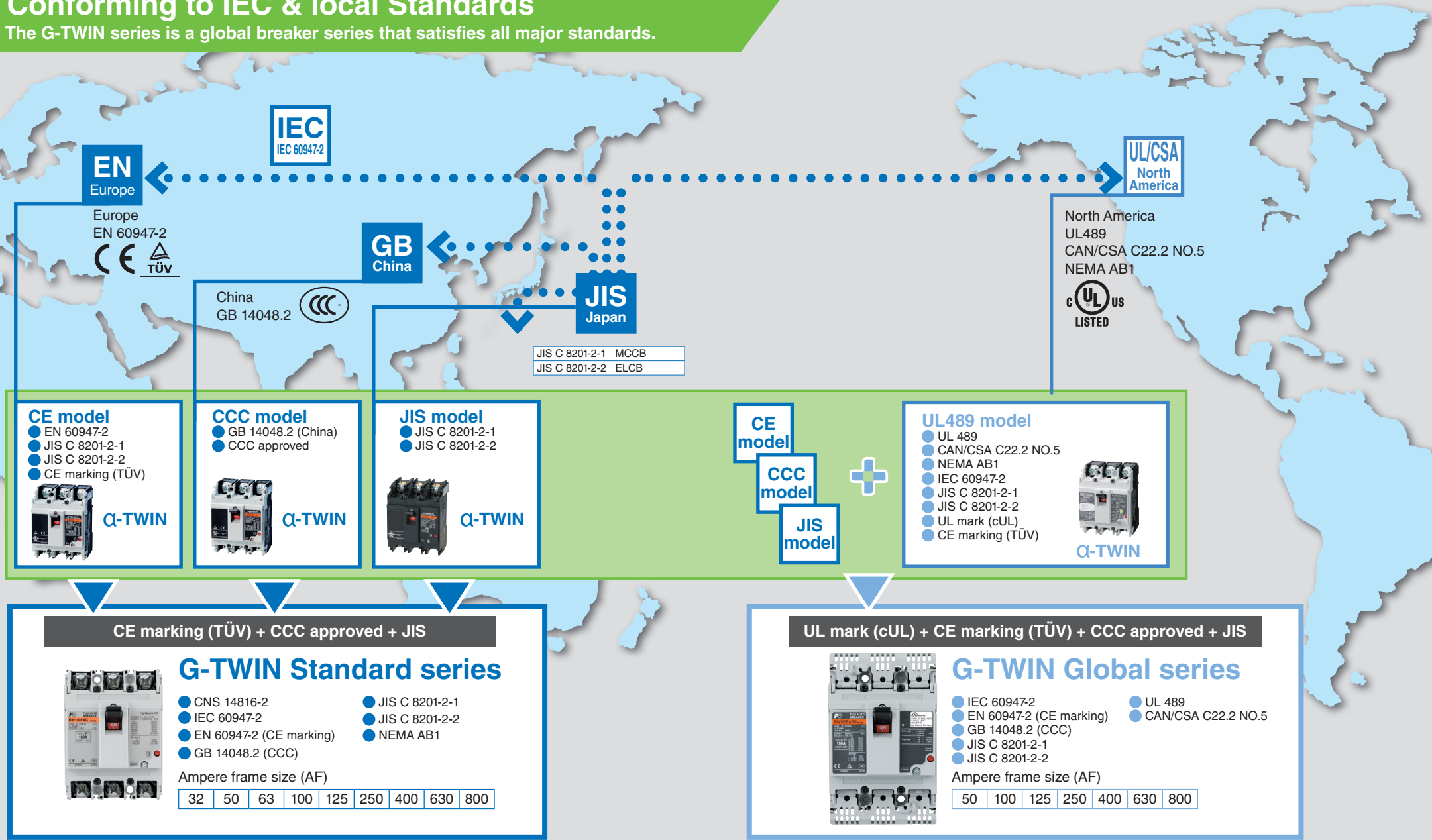
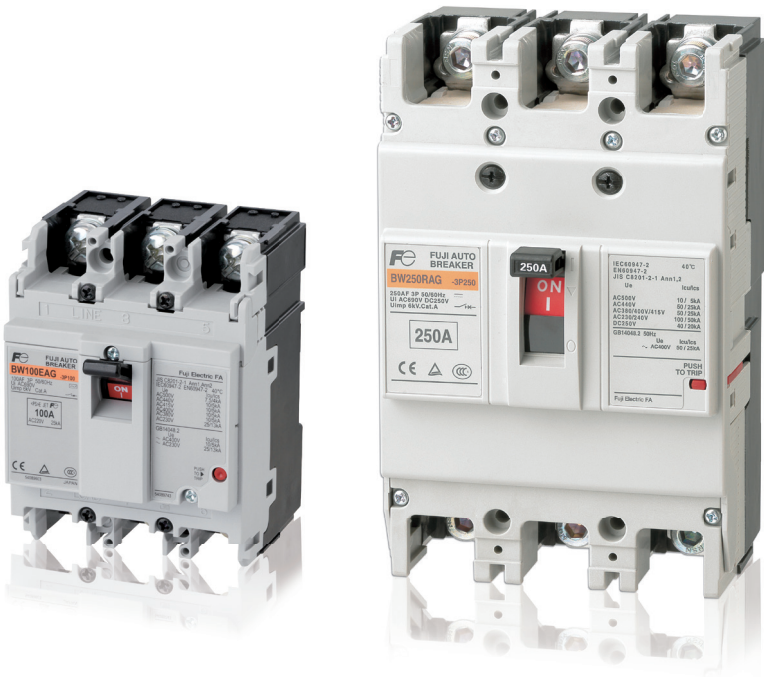


GLOBAL-TWIN

Conforming to IEC & local Standards
The G-TWIN series is a global breaker series that satisfies all major standards.



FUJI Molded Case Circuit Breakers



62D9-E-0221a

Fuji Electric FA Components & Systems Co., Ltd.

Compact & High performance

Compact size meeting UL489 480V requirements & same dimensions as ELCB

ELCB
Rated voltage 480V
(W105xH181xD68mm)

Same dimensions

MCCB
Rated voltage 480V
(W105xH181xD68mm)

Technical innovation
Arc and gas flow control technology
Effect of "ablation breaking technology"

Decrease by 30%!

Moving contact cover
● Arcing prevention at the bottom of moving contact

Narrow slit resin
● Increased arc voltage due to narrow slit effect
● Increased arc voltage and high-speed moving contact opening by ablation effect
● Suppression of internal pressure rise by adjusting the narrow slit width

Magnetic yoke arrangement
● An increase in the repulsion force of the moving contact at initiation of contact opening

Ecology

Advanced environmental technology
Conforming to the RoHS Directive
The G-TWIN Series is designed to lower environmental impact.

Recycling
● For easier recycling, all major parts are marked with the names of the materials used.

Conforming to the RoHS Directive
● Lead-free (Pb-free) solder is used.
● Free of hexavalent chromium (Cr⁶⁺-free) (125 to 800AF)

Usefulness Leading the way in user-friendliness

Unifying and reducing the types of internal accessories

32 to 100AF
● Internal and external accessories
A wider range of customer-mountable accessories

MCCB Shunt trip device Undervoltage trip device Auxiliary switch Alarm switch

125 to 250AF
● Sharing internal accessories of 125/250AF breakers.

AF	G-TWIN	G-TWIN
125	8	
160/250	8	8

MCCB Shunt trip device Undervoltage trip device Auxiliary switch Alarm switch

400 to 800AF
● The number of types of internal accessories of 400/630/800AF has been significantly reduced.

AF	G-TWIN	G-TWIN
400		6
630	26	
800		

MCCB Shunt trip device Undervoltage trip device Auxiliary switch Alarm switch

FUJI MCCB and ELCB
GLOBAL TWIN The Twin Breakers have advanced to an entirely new stage.

Conforming to IEC & local Standards

Conforming to certifications and standards in major world markets
Expanded frame sizes in G-TWIN Global Series

Compact & High performance

Compact models with unified dimensions meeting UL489 480V and IEC 440V requirements

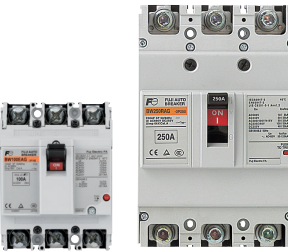
Ecology

Lower environmental impact Advanced green engineering and energy-saving support Conforaming to the RoHS Directive

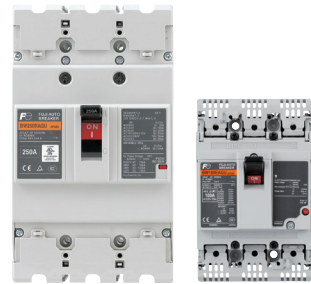
Usefulness

Leading the way in user-friendliness

G-TWIN
Standard series
MCCB

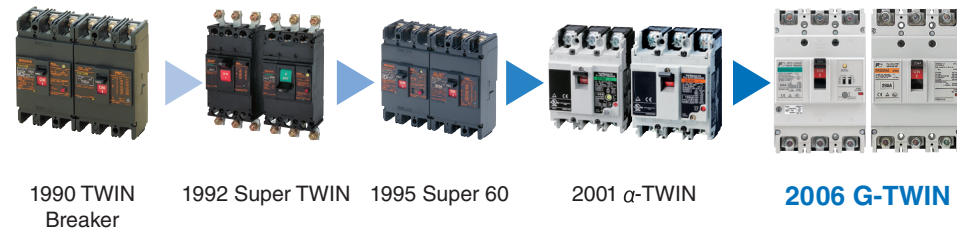


G-TWIN
Global series
MCCB



Fuji Electric launched the Twin Breaker Series to world markets in 1990, in which molded case circuit breaker (MCCB) and earth leakage circuit breaker (ELCB) types were unified in external dimensions for the first time in the world. The Twin Breaker Series was highly evaluated and gained strong support, and the concept of Twin Breakers was established as Japan's de facto standards for MCCBs and ELCBs. In 1992, Fuji Electric released the Super Twin Breaker Series, which enabled user installation of internal accessories for the first time in Japan. In 1995, Fuji Electric released the Super 60 Series and advanced modularization via uniform external dimensions. In 2001, Fuji Electric launched the α -TWIN Series to further advance the miniaturization and modularization of economic types with 100A frame or less as Japan's first multi-standard circuit breakers satisfying domestic and international standards. Since then, Fuji Electric has been making further product improvements by predicting market trends. In recent years, market globalization has increasingly accelerated. At the end of 2004, the Japanese Industrial Standards (JIS) were aligned with the IEC standards, and the globalization in this field has been further accelerated. Based on the Twin Breaker Series, Fuji Electric has expanded the range of its products conforming to and approved by international standards for global markets, always advanced the innovative development of fundamental technologies in response to the market demand, and developed the G-TWIN Series of MCCBs and ELCBs.

GLOBAL TWIN History



G-TWIN series		32AF								50AF								63AF								100AF						125AF						250AF															
IEC/EN60947-2, GB14048.2, JISC8201-2-1																																																					
Type		BW32AAG		BW32SAG		BW50AAG		BW50EAG		BW50SAG		BW50ZSG		BW50RAG		BW63EAG		BW63SAG		BW63ZSG		BW63RAG		BW100AAG		BW100EAG		BW125JAG			BW125RAG			BW125HAG			BW250EAG		BW250JAG		BW250RAG			BW250HAG									
Pole		2	3	2	3	2	3	2	3	2	3	3		2	3	2	3	2	3	3	2	3	2	3	3	2	3	2	3	4*3	2	3	4	3		2	3	2	3	4*3	2	3	4	3									
Rated current		In [A] 3, 5, 10, 15, 20, 30, (32)*3								5, 10, 15, 20, 30, (32)*3 40, 50								10, 15, 20, 30, (32)*3 40, 50								60, (63)*3 60, (63)*3 75, 100						50, 60, (63)*3 75, 100						15, 20, 30, 40, 50, 60, 75, 100, 125								125, 150, 160, 175, 200, 225, 250							
Rated impulse withstand voltage		Uimp [kV] 6								6								6								6						6						6															
Isolation compliant		Approved								Approved								Approved								Approved						Approved																					
Rated insulation voltage		Ui [V] AC		500		690		500		690		690		690		690		690		690		690		500		690		690						690																			
		DC		—		250*1		—		250*1		250*1		—		250*1		250*1		250*1		—		—		250*1		250						—								250								—			
Rated frequency		[Hz] 50-60								50-60								50-60								50-60						50-60						50-60						50-60									
Rated breaking capacity [kA] CNS14816-2 IEC60947-2 EN60947-2 JIS8201-2-1 lcu/lcs <																																																					